

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	630	collagen and lactobacillus	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:06
L2	69727	collagen and \$bacillus	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:06
L3	5907	collagen and \$bacillus	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:09
L4	3431	L3 and ("pepsin" or "trypsin" or "papain")	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:08
L5	249	collagen same \$bacillus	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:08
L6	105	L5 and ("pepsin" or "trypsin" or "papain")	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:08
L7	93	L6 and (precipitation or salt)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:08
L8	2	collagen same \$bacillus same ("pepsin" or "trypsin" or "papain") same (precipitation or salt)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:11
L9	4	collagen same ferment\$ same ("pepsin" or "trypsin" or "papain") same (precipitation or salt)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:12
L10	2938	collagen and ferment\$ and ("pepsin" or "trypsin" or "papain") and (precipitation or salt)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:12
S1	1108	530/356	US-PGPUB; USPAT; DERWENT	OR	ON	2006/04/13 08:06
S2	48	S1 and fermentation	US-PGPUB; USPAT; DERWENT	OR	ON	2004/11/01 15:36
S3	24	S2 and bacteria	US-PGPUB; USPAT; DERWENT	OR	ON	2004/11/01 15:06
S4	840	"collagen production"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/11/01 15:36

## EAST Search History

S5	911	"collagen production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/11/01 15:37
S6	93	S5 and pepsin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/11/01 15:40
S7	692	S5 and acid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/11/01 15:38
S8	26	S5 and "acidic solution"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/11/01 15:38
S9	62693	collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 09:52
S10	1119	530/356	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/08 09:52
S11	50	S10 and fermentation	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/08 09:52
S12	26	S11 and bacteria	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/12 13:55
S13	50	S10 and fermentation	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/08 09:52
S14	910	"collagen production"	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/08 09:52
S15	990	"collagen production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 09:52
S16	745	S15 and acid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 09:52
S17	28	S15 and "acidic solution"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 09:52

## EAST Search History

S18	105	S15 and pepsin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 09:52
S19	2	("6372794").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 09:59
S20	4	("3616205").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 10:01
S21	3	("3681093").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 10:19
S22	644	(530/356).CCLS.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 10:19
S23	24	S22 and Bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 10:20
S24	23	S23 and production	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 10:22
S25	7	S22 and "production methods"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:11
S26	3	"collagenase" near "microorganism"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:14
S27	0	"collagenase" near "ferment or fermentation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:15
S28	3	"collagenase" near "fermentation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:16
S29	38	Bacillus and S10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:19
S30	4233	S9 and Bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:20

## EAST Search History

S31	69	S30 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:36
S32	61	S31 and produce	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:21
S33	0	"method of production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:37
S34	1632	"collagen" near "production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:37
S35	80	S34 and Bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:38
S36	5	S35 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:38
S37	0	S34 and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 11:38
S38	7	S34 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 12:24
S39	0	("200353158").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 12:58
S40	0	("200353158").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/08 12:59
S41	0	("200320937").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/08 12:59
S42	495	LEMIEUX.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 12:59

## EAST Search History

S43	5	S42 and collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 12:59
S44	4	("2003053158").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/08 13:57
S45	24	"keratin feathers"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 13:57
S46	6	S45 and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 13:59
S47	239242	bacteria	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 13:59
S48	138	S47 and "collagen degradation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 13:59
S49	10	S48 and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 14:00
S50	628	"collagen degradation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 14:01
S51	29	S50 and bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 15:23
S52	4	("3616205").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 15:24
S53	3	("3681093").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 15:25
S54	2	("5480427").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 15:25
S55	2	("6372794").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 15:26

## EAST Search History

S56	2	("5106949").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 15:27
S57	2	("5436135").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/08 15:28
S58	20	"collagen purification"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/08 15:31
S59	62693	collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 11:00
S60	20	"collagen purification"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 11:01
S61	2093	collagen and pepsin and "acetic acid"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 11:02
S62	0	collagen near pepsin near "acetic acid"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 11:01
S63	1739	S61 and purification	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 11:02
S64	16	collagen.clm. and pepsin.clm. and "acetic acid".clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 11:02
S65	1119	530/356	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:00
S66	50	S65 and fermentation	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:00
S67	26	S66 and bacteria	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:00
S68	50	S65 and fermentation	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:00

## EAST Search History

S69	910	"collagen production"	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:00
S70	990	"collagen production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/12 14:03
S71	745	S70 and acid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S72	28	S70 and "acidic solution"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S73	105	S70 and pepsin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S74	62693	collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S75	1119	530/356	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:00
S76	50	S75 and fermentation	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:00
S77	910	"collagen production"	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:00
S78	990	"collagen production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S79	745	S78 and acid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S80	26	S76 and bacteria	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:00
S81	50	S75 and fermentation	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:00

## EAST Search History

S82	28	S78 and "acidic solution"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S83	105	S78 and pepsin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S84	2	("6372794").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00
S85	4	("3616205").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00
S86	3	("3681093").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00
S87	644	(530/356).CCLS.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00
S88	24	S87 and Bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S89	23	S88 and production	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S90	7	S87 and "production methods"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S91	3	"collagenase" near "microorganism"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S92	0	"collagenase" near "ferment or fermentation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S93	3	"collagenase" near "fermentation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S94	38	Bacillus and S75	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00



## EAST Search History

S95	4233	S74 and Bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S96	69	S95 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S97	61	S96 and produce	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S98	69	S95 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S99	0	"method of production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S10 0	1632	"collagen" near "production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S10 1	80	S100 and Bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S10 2	5	S101 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S10 3	0	S100 and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S10 4	7	S100 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S10 5	0	("200353158").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00
S10 6	0	("200353158").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/09 14:00

## EAST Search History

S10 7	0	("200320937").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/09 14:00
S10 8	495	LEMIEUX.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S10 9	5	S108 and collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S11 0	4	("2003053158").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/09 14:00
S11 1	24	"keratin feathers"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S11 2	6	S111 and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S11 3	239242	bacteria	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S11 4	138	S113 and "collagen degradation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S11 5	10	S114 and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S11 6	628	"collagen degradation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S11 7	29	S116 and bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S11 8	4	("3616205").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00

## EAST Search History

S11 9	3	("3681093").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00
S12 0	2	("5480427").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00
S12 1	2	("6372794").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00
S12 2	2	("5106949").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00
S12 3	2	("5436135").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:00
S12 4	20	"collagen purification"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S12 5	62693	collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:00
S12 6	1119	530/356	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:02
S12 7	26	S66 and bacteria	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:02
S12 8	50	S65 and fermentation	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:02
S12 9	910	"collagen production"	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:02
S13 0	990	"collagen production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S13 1	745	S70 and acid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S13 2	28	S70 and "acidic solution"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02

## EAST Search History

S13 3	105	S70 and pepsin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S13 4	62693	collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S13 5	1119	530/356	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:02
S13 6	50	S75 and fermentation	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:02
S13 7	910	"collagen production"	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:02
S13 8	990	"collagen production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S13 9	745	S78 and acid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S14 0	26	S76 and bacteria	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:02
S14 1	50	S75 and fermentation	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/09 14:02
S14 2	28	S78 and "acidic solution"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S14 3	105	S78 and pepsin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S14 4	2	("6372794").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02
S14 5	4	("3616205").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02
S14 6	3	("3681093").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02

## EAST Search History

S14 7	644	(530/356).CCLS.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02
S14 8	24	S87 and Bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S14 9	23	S88 and production	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S15 0	7	S87 and "production methods"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S15 1	3	"collagenase" near "microorganism"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S15 2	0	"collagenase" near "ferment or fermentation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S15 3	3	"collagenase" near "fermentation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S15 4	38	Bacillus and S75	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S15 5	4233	S74 and Bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S15 6	61	S96 and produce	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S15 7	69	S95 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S15 8	0	"method of production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02

## EAST Search History

S15 9	1632	"collagen" near "production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S16 0	80	S100 and Bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S16 1	5	S101 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S16 2	0	S100 and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S16 3	7	S100 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S16 4	0	("200353158").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02
S16 5	0	("200353158").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/09 14:02
S16 6	0	("200320937").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/09 14:02
S16 7	495	LEMIEUX.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S16 8	5	S108 and collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S16 9	4	("2003053158").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/09 14:02
S17 0	24	"keratin feathers"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02

## EAST Search History

S17 1	6	S111 and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S17 2	239242	bacteria	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S17 3	138	S113 and "collagen degradation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S17 4	10	S114 and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S17 5	628	"collagen degradation"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S17 6	29	S116 and bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S17 7	4	("3616205").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02
S17 8	3	("3681093").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02
S17 9	2	("5480427").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02
S18 0	2	("6372794").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02
S18 1	2	("5106949").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02
S18 2	2	("5436135").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/09 14:02
S18 3	20	"collagen purification"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02

## EAST Search History

S18 4	62693	collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 14:02
S18 5	370	simard.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/12 13:56
S18 6	3	S185 and collagen	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/12 13:56
S18 7	1	S185 and MPM	US-PGPUB; USPAT; DERWENT	OR	ON	2005/03/12 13:56
S18 8	997	"collagen production"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/12 14:12
S18 9	40	S188 and bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/12 14:06
S19 0	196425	"collagen" or "gelatin"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 10:59
S19 1	10575	S190 and bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/12 14:06
S19 2	324	S191 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/12 14:07
S19 4	122	S192 and precipitate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/12 14:08
S19 5	196441	"collagen" or "gelatin"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01
S19 6	57218	S195 and purification	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01



## EAST Search History

S19 7	28909	S196 and "acetic acid"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01
S19 8	4123	S197 and "ammonium sulfate"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01
S19 9	3951	S198 and chromatography	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01
S20 0	3317	S199 and filtration	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01
S20 1	15981	"collagen".clm. or "gelatin".clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01
S20 2	2328	S201 and purification	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01
S20 3	949	S202 and "acetic acid"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01
S20 4	141	S203 and "ammonium sulfate"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01
S20 5	114	S204 and chromatography	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:01
S20 6	87	S205 and filtration	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:07
S20 7	103	S201 and pepsin.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/14 11:07
S20 8	16	S207 and "acetic acid".clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/15 11:54

## EAST Search History

S20 9	7325	Petersen.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/15 11:54
S21 0	76	S209 and collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/15 11:55
S21 1	12	S210 and bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/16 10:27
S21 2	2	("6528634").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/21 12:58
S21 3	2	("5663143").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/03/21 12:58
S21 4	664	(530/356).CCLS.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/10/18 14:09
S21 5	0	("L1and((ferment)or(fermentation) )").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/10/18 14:10
S21 7	29	S214 and ("ferment" or "fermentation")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/18 14:19
S21 8	4616	collagen and ("ferment" or "fermentation")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/18 14:20
S21 9	16	alpha-collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/18 14:21
S22 0	130581	monomeric collagen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/18 14:21
S22 1	57	"monomeric collagen"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/18 14:22
S22 2	0	S221 and ferment	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/18 14:21

## EAST Search History

S22 3	2	S221 and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/18 14:21
S22 4	18	S221 and isolation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/19 13:05
S22 5	2	("4066083").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/10/19 14:43
S22 6	84	(435/273).CCLS.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/10/21 14:46
S22 7	5	S226 and bacillus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/10/19 14:43
S22 8	2	("6855516").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/10/21 14:46
S22 9	222	bickley.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2005/10/27 07:53
S23 0	1	S229 and collagen	US-PGPUB; USPAT; DERWENT	OR	ON	2005/10/27 07:53